

FIG. 1

Id: 5'-

CTGGGATCCATCGAGGGTAGGATGCTGAAAGAAAAGAAGTACTCCCCGTCCTCTC-3'

Ir: 5'-

GTACTCCCCGTCCTCTCTGAAAGACCGTCACGACTTCGATCCGGGCGACCCAG-3'

IId: 5'-*GAAGTGTCTCCGCTGAAAGACCGTCACAGCTTCTAGAAGCTTGCGGC-3'*

IIr: 5'-*GCCGCAAGCTTCTAGAAGCTGTGACGGTCTTTCAGCGGAGACACTTC-3'*

FIG. 2

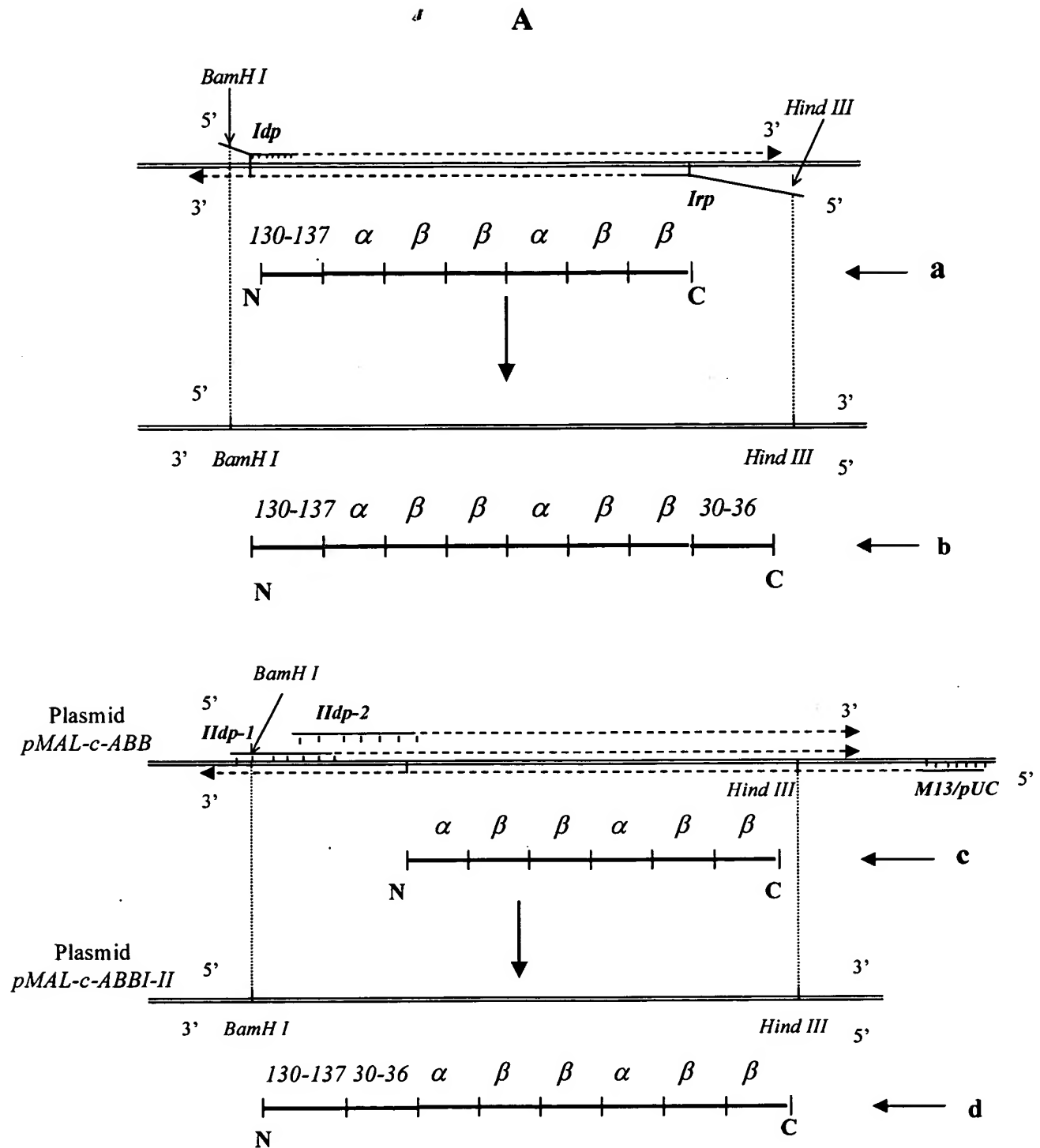


FIG. 3 A and B

C

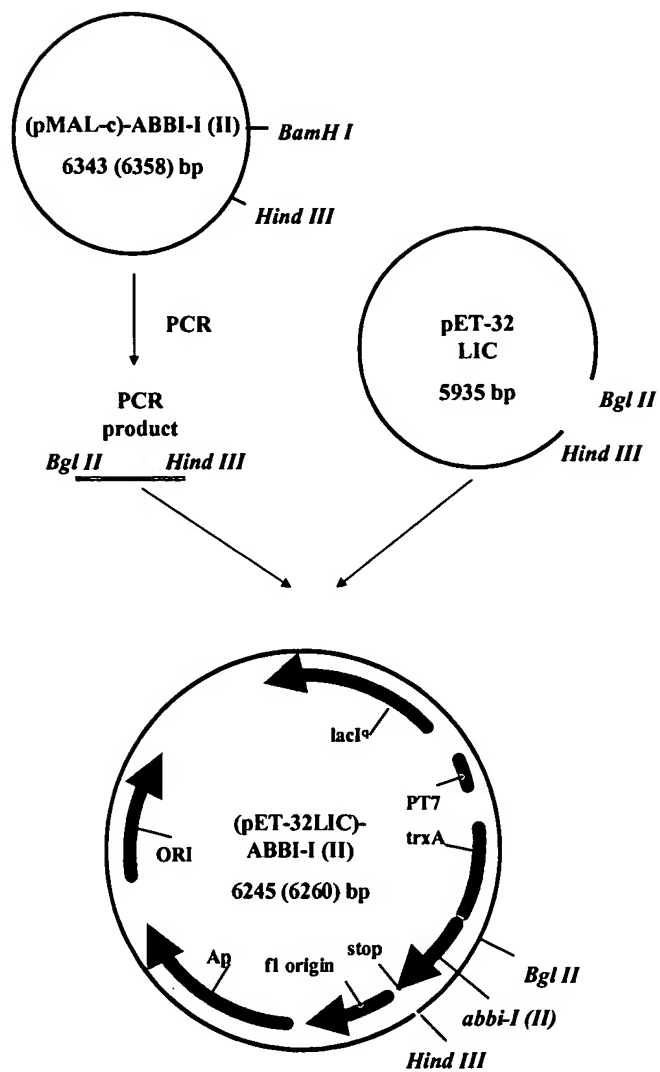
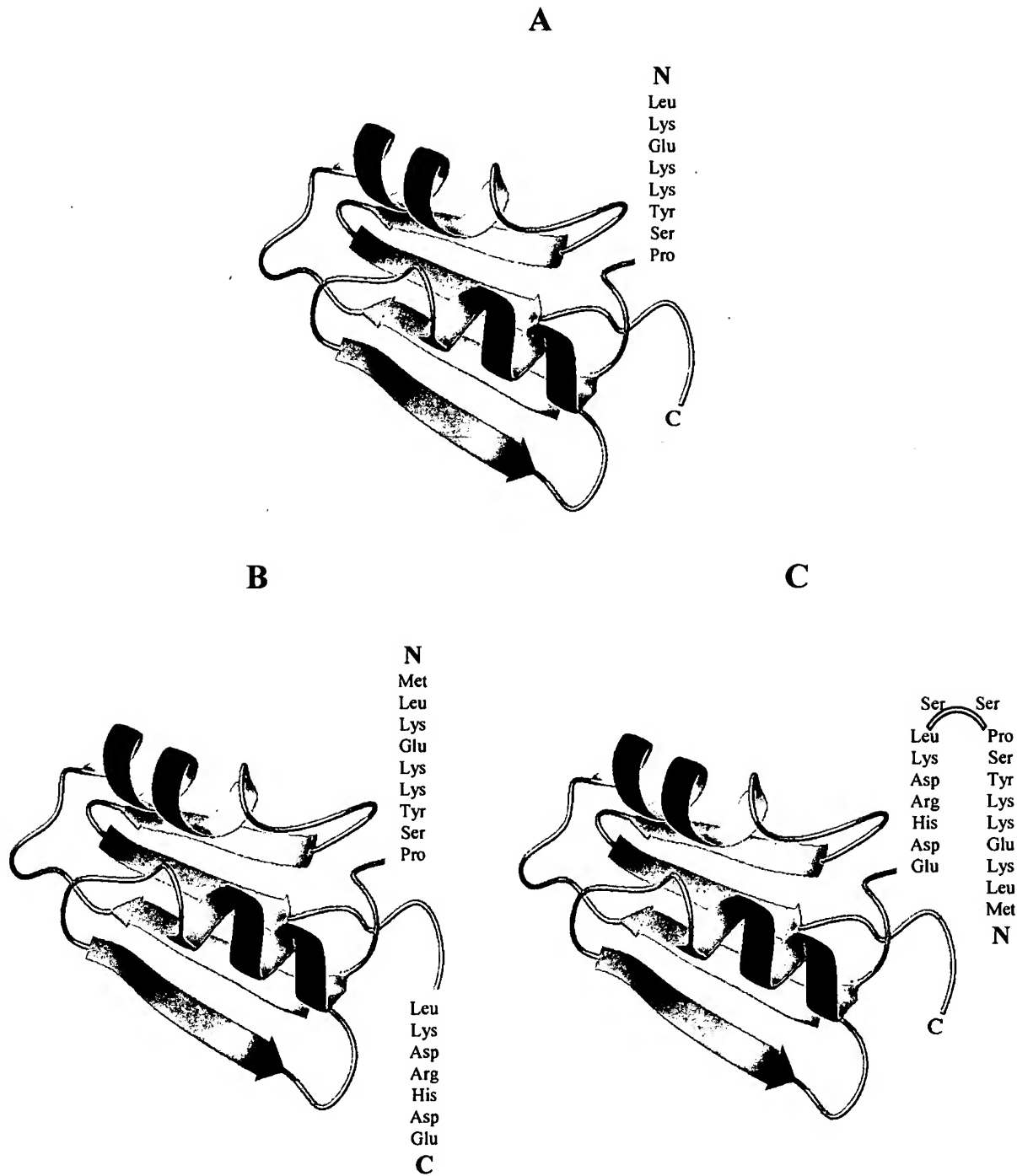


FIG. 3C

**FIG. 4**

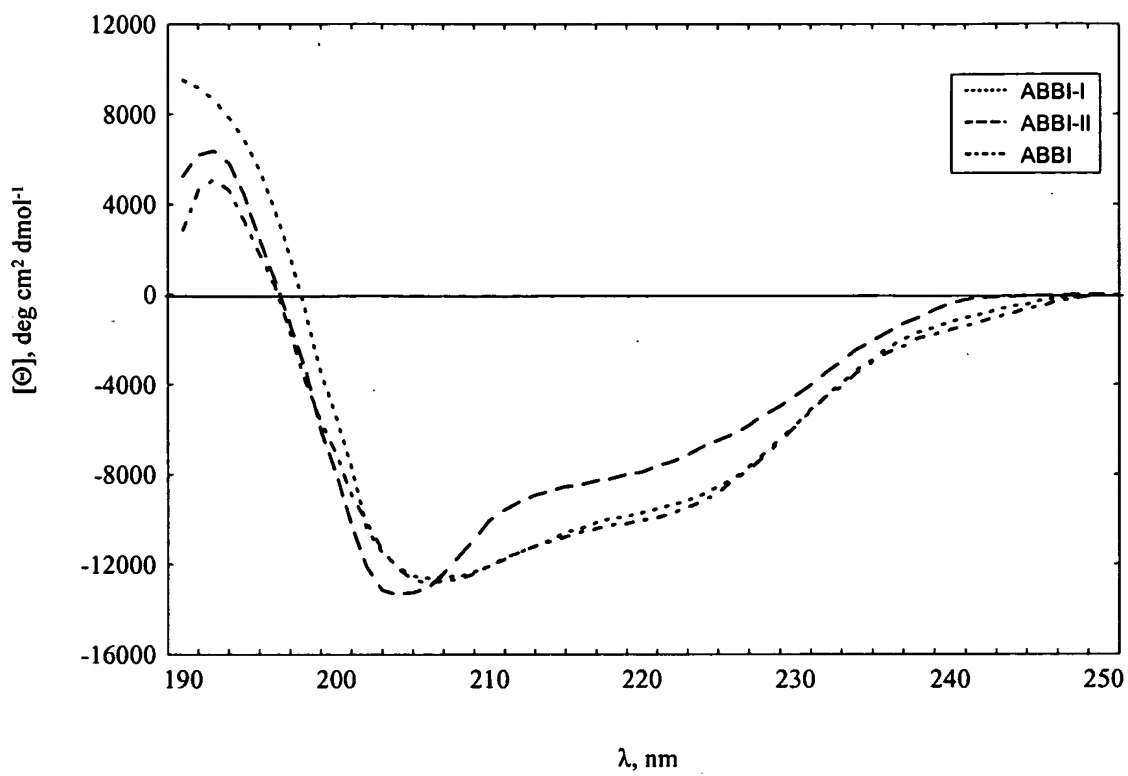


FIG. 5

| Preparation | Composition of regular structure, % | |
|--|-------------------------------------|--------------------|
| | α -structure | β -structure |
| Albebetin _{teor} [#] | 30 | 36 |
| Albebetin | 29 | 40 |
| Albeferon | 27 | 35 |
| Albeferon-I | 30 | 29 |
| Albeferon-II | 23 | 38 |

[#] Obtained from theoretical analysis of the pre-designed structure of albebetin.

FIG. 6

| Preparation | Antiviral activity (minimal concentration, M) | |
|------------------------|--|--------------------------------|
| | Culture L-41 | culture VERO |
| Albeferon | $1.3 \pm 0.61 \times 10^{-5}$ | $8.5 \pm 6.8 \times 10^{-5}$ |
| Albeferon-I | $2.9 \pm 1.36 \times 10^{-8}$ | $1.5 \pm 0.73 \times 10^{-8}$ |
| Albeferon-II | $1.4 \pm 0.45 \times 10^{-10}$ | $1.4 \pm 0.46 \times 10^{-10}$ |
| Interferon- α_2 | $5.5 \pm 3.57 \times 10^{-11}$ | $1.1 \pm 0.36 \times 10^{-11}$ |
| Interferon- γ | $1.1 \pm 0.51 \times 10^{-10}$ | $1.5 \pm 0.92 \times 10^{-9}$ |

FIG. 7

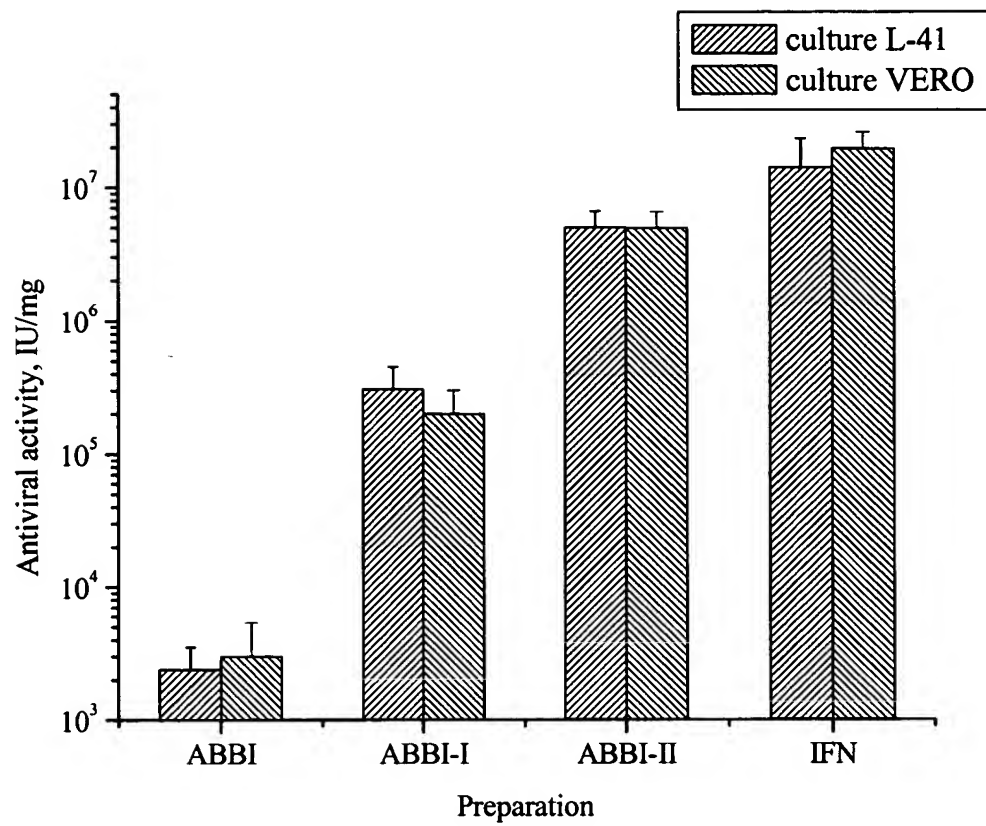


FIG. 8

| Preparation | Cytotoxic dose (CTD ₅₀), M | |
|--------------|--|---------------------------|
| | culture L-41 | culture VERO |
| Albebetin | $\geq 8.7 \times 10^{-5}$ | $\geq 8.5 \times 10^{-5}$ |
| Albeferon | $\geq 8.8 \times 10^{-5}$ | $\geq 8.8 \times 10^{-5}$ |
| Albeferon-I | $\geq 8.9 \times 10^{-5}$ | $\geq 9.0 \times 10^{-5}$ |
| Albeferon-II | $\geq 1.4 \times 10^{-4}$ | $\geq 1.2 \times 10^{-4}$ |

FIG. 9

| Preparation | Antiviral activity (minimal concentration, M) | |
|--------------------------------------|--|--------------------------------|
| | culture L-41 | culture VERO |
| Peptide LKEKKYSP | $1.2 \pm 0.44 \times 10^{-5}$ | $7.2 \pm 5.9 \times 10^{-5}$ |
| Peptide LKDRHDF | $3.1 \pm 1.27 \times 10^{-8}$ | $1.8 \pm 0.81 \times 10^{-8}$ |
| Peptide LKEKKYSP-Ser-Ser- LKDRHDF | $1.2 \pm 0.43 \times 10^{-10}$ | $1.3 \pm 0.51 \times 10^{-10}$ |
| Interferon- α_2 | $5.0 \pm 3.49 \times 10^{-11}$ | $1.3 \pm 0.33 \times 10^{-11}$ |

FIG. 10

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